

# Synaptosome lysate

Cat.No. 502-P2; , 100 µg tissue lysate

## Data Sheet

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Reconstitution/ Storage	100 μg lysate in 1 X SDS PAGE loading buffer 'ready to use'. Total volume: 50 μl. Concentration: 2 mg/ml. Aliquot and store at -20°C until use.
Applications	WB: yes
Loading/lane	10-30 µg
Source	White Wistar
Remarks	Since several synaptic proteins aggregate after boiling, these lysates are unboiled. Boil sample before loading, if this is recommended for your protocol.

#### TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

In many cases the relative concentration of the protein of interest is high enough to use whole brain lysate for Western blot testing. If the concentration is less than 0.2% of total protein it may be difficult to distinguish signals from background noise. Since a lot of proteins are localized in distinct cellular compartments, subfractioning may overcome this problem. Fractions have been prepared according to our protocol. Protein concentration has been determined with a Bradford protein quantification assay.

#### **Selected General References**

Expression profile of PRAF2 in the human brain and enrichment in synaptic vesicles. Koomoa DL, Go RC, Wester K, Bachmann AS Neuroscience letters (2008) 436(2): 171-6.

Synapsin I (protein I), a nerve terminal-specific phosphoprotein. III. Its association with synaptic vesicles studied in a highly purified synaptic vesicle preparation. Huttner WB, Schiebler W, Greengard P, De Camilli P The Journal of cell biology (1983) 96(5): 1374-88.

The preparation and characterization of synaptic vesicles of high purity. Nagy A, Baker RR, Morris SJ, Whittaker VP Brain research (1976) 109(2): 285-309.



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# Identification of the preparation and of the company

Product name: rat brain (synaptosomal fraction (P2))

Art. No.: 502-P2

Application of the preparation: Laboratory chemical

#### Manufacturer/Supplier:

Synaptic Systems GmbH Rudolf-Wissell-Straße 28 37079 Göttingen Phone:+49 (0)551-50556-358 Fax:+49 (0)551-50556-384 E-mail: support@sysy.com

#### Information in case of emergency:

Giftinformation München Phone: +49 (0)89 19240

#### Components:

Common Name	Classification	Art. No.	
Sodium dodecyl sulphate	Xn R20/22, Xi R37/38-41	502-P2	
Mercaptoethanol	T R23-25, Xi 38-41 N R50/53	502-P2	



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### 1. Identification of the preparation and of the company

**Product name:** rat brain (synaptosomal fraction (P2))

Art. No.: 502-P2

Amount: 100micrograms

Application of the preparation: Laboratory chemical

#### Manufacturer/Supplier:

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2. Information concerning particular hazards for human and environment: This product is hazardous according to EEC directives 67/548/EEC and 1999/45/EC.

#### T; Toxic

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. **Xi; Irritant** R38-41: Irritating to skin. Risk of serious damage to eyes. **Xn; harmful** R20/22: harmful in contact with skin and if swallowed. **N; Dangerous for the environment** R50/53: Very toxic to aquatic organisms, may cause long-term adverse of

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **GHS** label elements



Signal word: Danger

#### Hazard statements

Harmful if swallowed.
Toxic in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye damage.
Very toxic to aquatic life with long lasting effects.

P280	Wear protective gloves / eye protection / face protection
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P301+P312	IF SWALLOWED: Call a poison center or physician if you feel unwell.
P305+P351+P338 P403+P233	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to de Continue rinsing. Store in a well ventilated place. Keep container tightly closed.
trained personnel.	ntially dangerous. They should only be handled by specially
Composition/informa Chemical characteriz	-
<b>Description:</b> Aqueous	
Dangerous componei	
CAS No. 151-21-3 Sodi	um Dodecyl sulphate >1% (3.0%)
CAS No. 6-24-2 Merca	otoethanol >1% (3.3%)
General information: After inhalation: Sup	Immediately remove any clothing soiled by the product. ply fresh air and to be sure call for a doctor.
General information: After inhalation: Sup After skin contact: In irritation continues, co After eye contact: Rin persist, consult a doct After swallowing: Rin person feels sick as vo to do so by medical pe	ply fresh air and to be sure call for a doctor. Inmediately wash off with soap and plenty of water. If skin Insult a doctor. Inse opened eye for 15 minutes under running water. If sympto
General information: After inhalation: Sup After skin contact: In irritation continues, co After eye contact: Rin persist, consult a doct After swallowing: Rin person feels sick as vo to do so by medical per vomit does not enter for Suitable extinguishin Use water spray, alcoh	ply fresh air and to be sure call for a doctor. Inmediately wash off with soap and plenty of water. If skin onsult a doctor. Inse opened eye for 15 minutes under running water. If sympto or. Inse out mouth and drink a glass of water. Stop if the exposed omiting may be dangerous. Do not induce vomiting unless dire ersonnel. If vomiting occurs, the head should be kept low so the the lungs. Get medical attention.
After inhalation: Supp After skin contact: Im irritation continues, co After eye contact: Rin persist, consult a doct After swallowing: Rin person feels sick as vo to do so by medical per vomit does not enter R 5. Fire-fighting measure Suitable extinguishin Use water spray, alcoh Special hazards cause gases: Decomposition produc oxide. Protective equipmen	ply fresh air and to be sure call for a doctor. Inmediately wash off with soap and plenty of water. If skin onsult a doctor. Inse opened eye for 15 minutes under running water. If sympt or. Inse out mouth and drink a glass of water. Stop if the exposed omiting may be dangerous. Do not induce vomiting unless direct ersonnel. If vomiting occurs, the head should be kept low so the the lungs. Get medical attention. Intersection dioxide. Intersection dioxide. Intersection dioxide. Intersection of combustion or resulting cts may include carbon oxides, Hydrogen sulfide and Sulphur

	6.	Accidental release measures
		<b>Person-related safety precautions:</b> Wear protective clothing. Avoid breathing vapors,
		mist or gas. Ensure adequate ventilation.
		Measures for environmental protection: Do not allow to enter sewers/surface or
		ground water.
		Measures for cleaning/collecting: Soak up with inert absorbent material.
	7.	Handling and storage
		<b>Information for safe handling:</b> Handling corresponding to laboratory safety guidelines.
		Work in fume cupboard. Ensure good ventilation.
		Information about fire - and explosion protection: No special measures required.
		<b>Requirements to be met by storerooms and receptacles:</b> No special requirements.
		Information about storage in one common storage facility: Store away from oxidizing
		agents.
		Store away from foodstuffs.
		Further information about storage conditions: Storage temperature: -20 °C
	8.	Exposure controls/personal protection
		Ingredients with limit values that require monitoring at the workplace:
		The product does not contain any relevant quantities of materials with critical values
		that have to be monitored at the workplace.
		<b>Respiratory protection:</b> Required when vapours/aerosols are generated.
		Protection of hands: Handle with gloves.
		Eye protection: Tightly sealed goggles
		Body protection: Protective work clothing
-		Dhusical and showing accounting
	9.	Physical and chemical properties General Information
		Form: viscous liquid
		Colour: Blue.
		<b>Odour:</b> Hydrogen sulfide, characteristic
		Change in condition
		Melting point/Melting range: Undetermined.
		Boiling point/Boiling range: Undetermined.
		Flash point: Not applicable.
		<b>Self-igniting:</b> Product is not self-igniting. <b>Danger of explosion:</b> Product does not present an explosion hazard.
		<b>Density:</b> Not determined.
		Solubility in / Miscibility with water: Soluble.
		Solubility in / Miscibility with water. Soluble.
ł	10	Stability and reactivity
		<b>Thermal decomposition / conditions to be avoided:</b> No decomposition if used
		according to specifications.
		Materials to be avoided:
		Strong oxidizing agents.
		Dangerous decomposition products:
		Hazardous decomposition products formed under fire conditions. – Carbon oxides,
		Sulphur oxides
- 1		

	Toxicological information Acute toxicity:			
	LD/LC50 values relevant for classification:			
	Mercaptoethanol			
	•			
	Oral LD50 98-168 mg/kg (rat)			
	Dermal LD50 167mg/kg (rabbit)			
	Inhalative LC50/4h ~2mg/l (rat (ECHA)			
	Primary irritant effect:			
	on the skin: irritand to skin and mucous membranes			
	on the eye: Risk of corneal opacity, strongly irritand danger of severe eye injury			
	after inhalation: Irritating, coughing, dyspnoea			
	Sensitization: No sensitizing effects known.			
	Further information:			
	The product should be handled with the care usual when dealing with chemicals.			
	Sodium Dodecyl Sulphate			
	Oral LD50 1427 mg/kg (rat)			
	Dermal LD50 580 mg/kg (rabbit)			
	Primary irritant effect:			
	on the skin: irritand to skin and mucous membranes			
	on the eye: Risk of corneal opacity, strongly irritand danger of severe eye injury			
	after inhalation: Irritating, coughing, dyspnoea			
	Sensitization: No sensitizing effects known.			
	Further information:			
	The product should be handled with the care usual when dealing with chemicals.			
	The product should be handled with the care usual when dealing with chemicals.			
12.	Ecological information			
	Ecotoxical effects			
	Acquatic toxicity:			
	Mercaptoethanol			
	LC50 values relevant for classification:			
	Fish: 37mg/l/96h			
	Daphnia: 0,4mg/l/48h			
	Algeal: 12mg/l/72h			
	Sodium Dodecyl Sulphate			
	Fish: 4,5mg/l/96h			
	Daphnia: 6mg/l/48h			
	Algeal: 53mg/l/72h			
13.	Disposal considerations			
-	Product: This material and its container must be disposed of as hazdous waste.			
	The disposal is regionally differently regulated, therefore the kind of disposal is to be			
	inquired at the responsible authorities.			
	<b>Uncleaned packaging:</b> Disposal according to official regulations.			
	oncloned packaging. Disposal according to ornelat regulations.			
	Transport information			
14.	Land transport ADR/RID (cross-border) Not subject to transport regulations.			
14.	Maritima teaperate IMDC. Not descently as a de			
14.	Maritime transport IMDG: Not dangerous goods.			
14.	Air transport IMDG: Not dangerous goods. Air transport ICAO-TI and IATA-DGR: Not dangerous goods.			
14.				

15.	Regulatory information
	Labelling according to EU guidelines:
	Hazard symbols: Xi – Irritant
	Risk-Phrase: R41 – Risk of serious damage to eyes.
	Safety-Phrase: S26 – In case of contact with eyes, rinse immediately with plenty of water
	and seek medical advice. S39 – Wear eye/face protection.
	National regulations:
	Waterhazard class: WGK2 – Hazardous for water.
16.	Other information
	This information is based on our present knowledge. However, this shall not constitute a
	guarantee for any specific product features and shall not establish a legally valid
	contractual relationship.
	Department issuing MSDS: Department: Research and Development
	Contact: Herr Dr. Martens
	Abbreviations and acronyms:
	ADR: Accord européen sur le transport des marchandises dangereuses par Route
	(European Agreement concerning the International Carriage of
	Dangerous Goods by Road)
	<b>RID:</b> Règlement international concernant le transport des marchandises dangereuses
	par chemin de fer (Regulations Concerning the International
	Transport of Dangerous Goods by Rail)
	IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	IATA-DGR: Dangerous Goods Regulations by the "International Air Transport
	Association" (IATA)
	ICAO: International Civil Aviation Organization
	ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
	<b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals