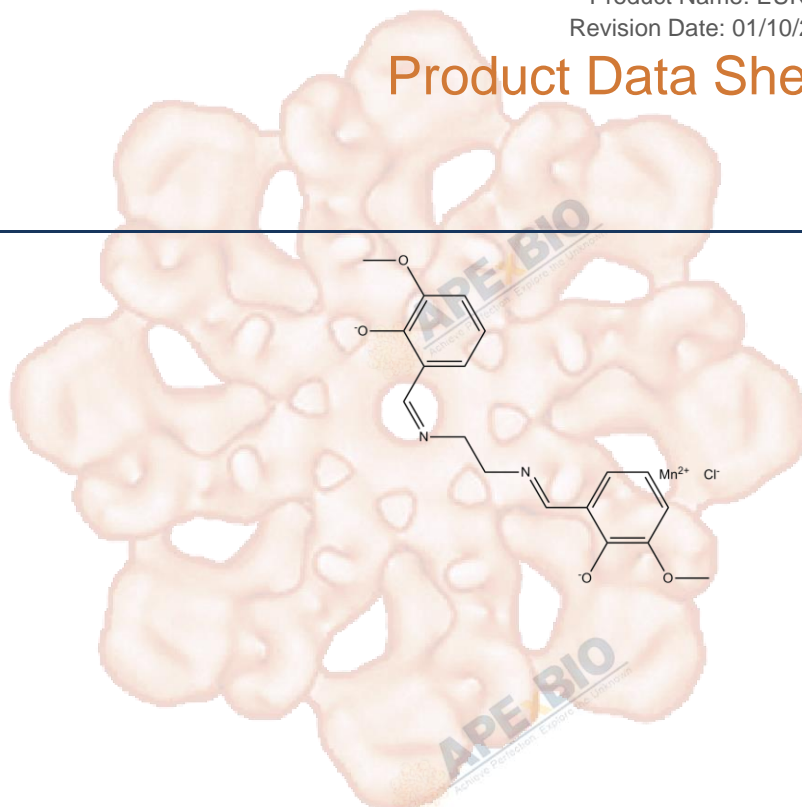


Product Data Sheet

EUK 134

Cat. No.:	B1325
CAS No.:	81065-76-1
Formula:	C ₁₈ H ₁₈ ClMnN ₂ O ₄
M.Wt:	416.74
Synonyms:	
Target:	Neuroscience
Pathway:	Amyloid β
Storage:	Store at -20°C



Solvent & Solubility

≥ 2.11 mg/mL in H₂O; ≥ 20.85 mg/mL in DMSO; ≥ 3.24 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.3996 mL	11.9979 mL	23.9958 mL
	5 mM	0.4799 mL	2.3996 mL	4.7992 mL
	10 mM	0.2400 mL	1.1998 mL	2.3996 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Salen-manganese complexes;SOD mimetic

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Human dermal fibroblasts
Preparation method:	The solubility of this compound in DMSO is >20.9mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	0, 20, 40, 60 and 80 μ M, 18h

	Applications:	In human dermal fibroblasts, EUK-134 had significantly greater cytoprotective activity than did EUK-8. EUK-134 (80 µM) was equally as protective as 290 units/ml of bovine liver catalase.
In Vivo	Animal experiment	
	Animal models:	male Sprague-Dawley rats with middle cerebral artery occlusion (MCA-o)
	Dosage form:	0.25 and 2.5 mg/kg, diluted in 0.9% saline, single intravenous bolus injection at 3 hr after MCA-o, killed at 21 hr or 72 hr.
	Applications:	In male Sprague-Dawley rats with middle cerebral artery occlusion (MCA-o), EUK-134 significantly lowered infarct volumes compared with those of vehicle-injected rats. EUK-134 at 2.5 mg/kg reduced the infarct volume by ~90%. After 72 hr, the EUK-134-treated group still exhibited a substantial degree of protection and the mean infarct volume did not differ significantly from that at 21 hr.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Baker K, Marcus C B, Huffman K, et al. Synthetic combined superoxide dismutase/catalase mimetics are protective as a delayed treatment in a rat stroke model: a key role for reactive oxygen species in ischemic brain injury[J]. Journal of Pharmacology and Experimental Therapeutics, 1998, 284(1): 215-221.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APEx BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

