Recombinant Mouse Sigmar1 Protein, Myc/DDK-tagged

Cat. No. Sigmar1-5877M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length sigma non-opioid intracellular receptor 1 (Sigmar1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a transmembrane protein located in the endoplasmic reticulum. The encoded protein is a receptor that binds several endogenous ligands, including N,N-dimethyltryptamine, progesterone and pregnenolone and a variety of of non-opiate compounds. The encoded protein plays a role in regulating the activity of ion channels, acting as a chaperone and protecting cells from oxidative stress. In humans, this receptor has been associated with Alzheimer's and Parkinson's diseases, stroke and numerous disease conditions such as depression, pain and addiction. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	25.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Sigmar1 sigma non-opioid intracellular receptor 1 [Mus musculus (house mouse)]
Official Symbol	Sigmar1
Synonyms	Sigmar1; sigma non-opioid intracellular receptor 1; O; Si; mSig; Oprs1; Sig1R; sigma1R; sigma non-opioid intracellular receptor 1; opioid receptor, sigma 1; sigma 1 receptor variant SR-1D; sigma 1-type opioid receptor; sigma1-receptor
Gene ID	18391
mRNA Refseq	NM_011014
Protein Refseq	NP_035144
UniProt ID	O55242

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