

PSMP Protein, Human (HEK293, Fc)

Cat. No.:	HY-P78027
Synonyms:	Msmpt; Psmpt
Species:	Human
Source:	HEK293
Accession:	Q1L6U9 (K37-S139)
Gene ID:	692094
Molecular Weight:	45-50 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PSMP Protein acts as a ligand for C-C chemokine receptor CCR2, leading to the activation and binding of CCR2 and subsequently inducing a strong chemotactic response and mobilization of intracellular calcium ions. It displays chemotactic activity specifically for monocytes and lymphocytes, but not for neutrophils. Additionally, PSMP Protein plays a crucial role in mediating neuropathic pain resulting from peripheral nerve injury. It enhances NMDA-mediated synaptic transmission in dopamine D1 and D2 receptor-containing neurons, potentially through MAPK/ERK-dependent phosphorylation of GRIN2B/NMDAR2B. PSMP Protein exists as a monomer or homodimer, with its presence on endothelial cells facilitated by glycosaminoglycan (GAG) side chains of proteoglycans. Furthermore, it interacts with TNFAIP6 through its Link domain.
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Caution: Product has not been fully validated for medical applications. For research use only.

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