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**Product Data Sheet**


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Product Name: SYT3 Human

Cat. No.: GP24760

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Synaptotagmin III; SYT3; SytIII; synaptotagmin-3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEFWKLCW VPWRDKGGSA VGGGPLRKDL GPGVGLAGLV GGGGHHLAAG LGGHPLLGGP HHHAAHAAHP PFAELLEPGS LGGSDTPEPS YLDMDSYPEA AAAAVAAGVK PSQTSPELPS EGGAGSGLLL LPPSGGGLPS AQSHQQVTSL APTRYPALP RPLTQQTLTS QPDPSSEERP PALPLPLPGG EEKAKLIGQI KPELYQGTGP GGRRSGGGPG SGEAGTGAPC GRISFALRYL YGSDQLVVRI LQALDLPKAD SNGFSDPYVK IYLLPDRKKK FQTKVHRKTL NPVFNETFQF SVPLAELAQR KLHFSVYDFD RFSRHDLIGQ VVLDNLELA EQPPDRPLWR DIVEGGSEKA DLGELNFSLC YLPTAGRLTV TIIKASNLKA MDLTGFSDPY VKASLISEGR RLKKRKTSIK KNTLNPTYNE ALVFDVAPES VENVGLSIAV VDYDCIGHNE VIGVCRVGPD AADPHGREHW AEMLANPRKP VEHWHLVVEE KTVTSFTKGS KGLSEKENSE.		
Formulation	The SYT3 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.		

**Introduction**

Synaptotagmin-3 (SYT3) is a member of the synaptotagmin family. SYT3 is involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may function as Ca(2+) sensors in the process of vesicular trafficking and exocytosis.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Background

SYT3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 540 amino acids (76-590) and having a molecular mass of 57.7 kDa. SYT3 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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