
Product Data Sheet

Product Name: CHRNA6 Human

Cat. No.: GP23158

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CHNRA6; Neuronal acetylcholine receptor subunit alpha-6; CHRNA6.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSKGCV GCATEERLFH KLFSHYNQFI RPVENVSDPV TVHFEVAITQ LANVDEVNQI METNLWLRHI WNDYKLRWDP MEYDGIETLR VPADKIWKPD IVLYNNAVGD FQVEGKTKAL LKYNGMITWT PPAIFKSSCP MDITFFPFDH QNCSLKFGSW TYDKAEIDLL IIGSKVDMND FWENSEWEII DASGYKHDIK YNCCEEIYTD ITYSFYIRRL.		
Formulation	CHRNA6 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Cholinergic Receptor Nicotinic, Alpha 6 (CHRNA6) is a part of the nicotinic acetylcholine receptors (nAChRs) family. nAChRs are heteropentameric ligand-gated ion channels generating from the assembly of alpha and beta protein subunits. After binding acetylcholine, the AChRs respond by a major change in conformation which affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. CHRNA6 receptors have a rather selective localization to the nigrostriatal pathway.

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.

Background

CHRNA6 Human Recombinant produced in E.Coli is a single, non-glycosylated

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

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polypeptide chain containing 250 amino acids (26-239 a.a) and having a molecular mass of 29.3kDa. CHRNA6 is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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