
Product Data Sheet

Product Name: CHRNA3 Human

Cat. No.: GP23157

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cholinergic Receptor; Nicotinic; Alpha 3 (Neuronal);Cholinergic Receptor; Nicotinic; Alpha Polypeptide 3; NACHRA3; LNCR2; PAOD2;Neuronal Nicotinic Acetylcholine Receptor; Alpha3 Subunit; NeuronalAcetylcholine Receptor Subunit Alpha-3; Acetylcholine Receptor; Alpha 3(Neuronal); Nicotinic; Neuronal acetylcholine receptor subunit alpha-3.		
Amino Acid Sequence	MGSSHHHHHSSGLVPRGSH MGSSEAEHRLFERLFEDYNE IIRPVANVSD PVIIHFEVSM SQLVKVDEVN QIMETNLWLK QIWNDYKLLKW NPSDYGGAEFMRVPAQKIWK PDIVLYNNAV GDFQVDDKTK ALLKYTG EVT WIPPAIFKSS CKIDVTYFPF DYQNCTMKFGSWSYDKAKID LVLIGSSMNL KDYWESGEWA IIKAPGYKHD IKYNCCEEIY PDITYSLYIR RL.		
Formulation	CHRNA3 protein solution (1mg/ml) containing 20mM Tris-HClbuffer (pH8.0) and 10% glycerol.		

Introduction

Cholinergic Receptor Nicotinic Alpha 3, also known as CHRNA3 is part of the nicotinic acetylcholine receptor family. Proteins of this family form pentameric complexes comprised of both alpha & beta subunits. Furthermore, CHRNA3 is ligand-gated ion channel which participates in neurotransmission. CHRNA3 has been associated with an increased risk of smoking initiation as well as an increased susceptibility to lung cancer.

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

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

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CHRNA3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 232 amino acids (32-240 a.a) and having a molecular mass of 27kDa. CHRNA3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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