Datasheet

Product Name	Recombinant Torpedo californica Acetylcholine receptor subunit alpha(CHRNA1),partial
Catalog Number	**AAA18710**
Expression host	*E.coli*
Product Info	N-terminal 6xHis-tagged
Storage Buffer	0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol
Storage	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.
Relevance	After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.
AA sequence	SEHETRLVANLLENYNKVIRPVEHHTHFVDITVGLQLIQLISVDEVNQIVETNV RLRQQWIDVRLRWNPADYGGIKKIRLPSDDVWLPDLVLYNNADGDFAIVHM TKLLLDYTGKIMWTPPAIFKSYCEIIVTHFPFDQQNCTMKLGIWTYDGTKVSIS PESDRPDLSTFMESGEWVMKDYRGWKHWVYYTCCPDTPYLDITYHFIMQRI
References	"NMR-based binding screen and structural analysis of the complex formed between alpha-cobratoxin and an 18-mer cognate peptide derived from the alpha-1 subunit of the nicotinic acetylcholine receptor from Torpedo californica." Zeng H., Hawrot E. J. Biol. Chem. 277:37439-37445(2002)

Certificate of Analysis

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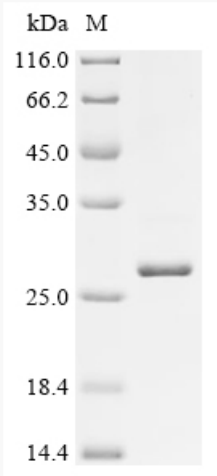
Buffer	0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol		
Batch Number	YD04559b1g5		
Nature	Torpedo californica CHRNA1-(AA 25-234)-**P02710-**Partial Protein		
Purification	Affinity purified using AC		
Recommended Storage	Short term	2 to 8 ℃, one week from the date of receipt	
	Long term	-20 to -80 ℃, six months from the date of receipt	
Form	Liquid		
Date of detection	2023.09.04		
Test Items	**Specifications**		**Results**
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		0.68 mg/ml
Purity	≥85%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		85%
Molecular Weight	Predicted band size: 27.3 kDa		Observed band size: 27 kDa

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	
Aseptic Processing	0.2 μm sterile filtered	
Endotoxin Level	<1.0 EU per 1μg of the protein by the LAL method.	pass
Activity	Not tested	
Conclusion	pass	