

Datasheet for ABIN7563144

OPRK1 Protein (AA 1-380) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	OPRK1
Protein Characteristics:	AA 1-380
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OPRK1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Oprk1 Protein expressed in mammalien cells.
Sequence:	<p>MESPIQIFRG DPGPTCPSA CLLPNSSSWF PNWAESDSNG SVGSEDQQL SAHISPAIPV IITAVYSVVF VVGLVGNSLV MFVIIRYTKM KTATNIYIFN LALADALVTT TMPFQSAVYL MNSWPFGDVL CKIVISIDYY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLASSVG ISAIVLGGTK VREDVDVIEC SLQFPDDEYS WWDLFMKICV FVFAFVIPVL IIVCYTLMI LRLKSVRLLS GSREKDRNLR RITKLVLVV AVFIICWTPI HIFILVEALG STSHSTAALS SYYFCIALGY TNSSLNPVLY AFLDENFKRC FRDFCFPIKM RMERQSTNRV RNTVQDPASM RDVGGMNKPV</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
---------	---

Grade:	custom-made
--------	-------------

Target Details

Target:	OPRK1
---------	-------

Alternative Name:	Oprk1 (OPRK1 Products)
-------------------	--

Background:	Kappa-type opioid receptor (K-OR-1) (KOR-1) (MSL-1),FUNCTION: G-protein coupled opioid receptor that functions as a receptor for endogenous alpha-neoendorphins and dynorphins, but has low affinity for beta-endorphins. Also functions as a receptor for various synthetic opioids and for the psychoactive diterpene salvinorin A. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling leads to the inhibition of adenylate cyclase activity. Inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. Plays a role in the perception of pain. Plays a role in mediating reduced physical activity upon treatment with synthetic opioids. Plays a role in the regulation of salivation in response to synthetic opioids. May play a role in arousal and regulation of autonomic and neuroendocrine functions. {ECO:0000269 PubMed:8393575, ECO:0000269 PubMed:9463367}.
-------------	---

Molecular Weight:	42.7 kDa
-------------------	----------

UniProt:	P33534
----------	------------------------

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
--------------------	--

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months