abcam

Product datasheet

Recombinant Human Prokineticin 2/PK2 protein ab50154

Description

Product name	Recombinant Human Prokineticin 2/PK2 protein
Purity	> 95 % SDS-PAGE. Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
Endotoxin level	< 0.100 Eu/µg
Expression system	Escherichia coli
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	AVITGACDKD SQCGGGMCCA VSIWVKSIRI CTPMGKLGDS CHPLTRKVPF FGRRMHHTC PCLPGLACLR TSFNRFICLA QK

Specifications

Our **Abpromise guarantee** covers the use of **ab50154** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized
Additional notes	This product was previously labelled as Prokineticin 2

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Reconstitution	For lot specific reconstitution information please contact our Scientific Support Team.

General Info

Function	May function as an output molecule from the suprachiasmatic nucleus (SCN) that transmits behavioral circadian rhythm. May also function locally within the SCN to synchronize output. Potently contracts gastrointestinal (GI) smooth muscle.
Tissue specificity	Expressed in the testis and, at low levels, in the small intestine.
Involvement in disease	Defects in PROK2 are the cause of Kallmann syndrome type 4 (KAL4) [MIM:610628]; also known as hypogonadotropic hypogonadism and anosmia. Anosmia or hyposmia is related to the absence or hypoplasia of the olfactory bulbs and tracts. Hypogonadism is due to deficiency in gonadotropin-releasing hormone and probably results from a failure of embryonic migration of gonadotropin-releasing hormone-synthesizing neurons. KAL4 patients have variable degrees of olfactory and reproductive dysfunction, but do not show any of the occasional clinical anomalies reported in Kallmann syndrome such as renal agenesis, cleft lip/palate, selective tooth agenesis, and bimanual synkinesis.
Sequence similarities	Belongs to the AVIT (prokineticin) family.
Cellular localization	Secreted.