

Recombinant Human Corticotropin-releasing factor receptor 1(CRHR1),partial

Catalog No: #AP70189

Package Size: #AP70189-1 20ug #AP70189-2 100ug #AP70189-3 1mg

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Description

Product Name	Recombinant Human Corticotropin-releasing factor receptor 1(CRHR1),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:24-121aaSequence Info:Partial
Other Names	Corticotropin-releasing hormone receptor 1 ;CRH-R-1 ;CRH-R1
Accession No.	P34998
Calculated MW	37.9 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	SLQDQHCESLSLASNISGLQCNASVDLIGTCWPRSPAGQLVVRPCPAFFYGVRYNTTNGYRECLANGSWAA RVNYSECQEILNEEKSKVHYHVAVI
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

G-protein coupled receptor for CRH (corticotropin-releasing factor) and UCN (urocortin). Has high affinity for CRH and UCN. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and down-stream effectors, such as adenylate cyclase. Promotes the activation of adenylate cyclase, leading to increased intracellular cAMP levels. Inhibits the activity of the calcium channel CACNA1H. Required for normal bryonic development of the adrenal gland and for normal hormonal responses to stress. Plays a role in the response to anxiogenic stimuli.

References

A novel CRF1 splice isoform involved in neurodegenerative and stress disorders.Sherrin T., Murthy S.R., Spiess J.cDNA clones of human proteins involved in signal transduction sequenced by the Guthrie cDNA resource center (www.cdna.org).King M.M., Aronstam R.S., Sharma S.V. Human protein factory for converting the transcriptome into an in vitro-expressed proteome.Goshima N., Kawamura Y., Fukumoto A., Miura A., Honma R., Satoh R., Wakamatsu A., Yamamoto J., Kimura K., Nishikawa T., Andoh T., Iida Y., Ishikawa K., Ito E., Kagawa N., Kaminaga C., Kanehori K., Kawakami B. , Kenmochi K., Kimura R., Kobayashi M., Kuroita T., Kuwayama H., Maruyama Y., Matsuo K., Minami K., Mitsubori M., Mori M., Morishita R., Murase A., Nishikawa A., Nishikawa S., Okamoto T., Sakagami N., Sakamoto Y., Sasaki Y., Seki T., Sono S., Sugiyama A., Sumiya T., Takayama T., Takayama Y., Takeda H., Togashi T., Yahata K., Yamada H., Yanagisawa Y., Endo Y., Imamoto F., Kisu Y., Tanaka S., Isogai T., Imai J., Watanabe S., Nomura N.Nat. Methods 5:1011-1017(2008)Research Topic:Neuroscience

Note: This product is for in vitro research use only and is not intended for use in humans or animals.