

32-7385: Recombinant Human Brain-Specific Angiogenesis Inhibitor 3/BAI3 (C-6His)

Gene : ADGRB3

Gene ID : 577

Uniprot ID : O60242

Description

Source: Human Cells.

MW :97.51kD.

Recombinant Human BAI3 is produced by our Mammalian expression system and the target gene encoding Ala25-Thr880 is expressed with a 6His tag at the C-terminus. Human Brain-Specific Angiogenesis Inhibitor 3 (BAI3) is a 177 kDa seven-span transmembrane (TM) protein, which is thought to be a member of the secretin receptor family. It is synthesized by neurons of the CNS and likely is a negative regulator of angiogenesis. BAI3 is 1498 amino acids in size. It contains three distinct regions: an N-terminal extracellular domain (ECD) (aa25-883), a 7-TM segment, and a C-terminal cytoplasmic region. The ECD contains four antiangiogenic TSP type 1 repeat (aa296-508), and one GSP domain (aa 816-867) that is likely used to cleave the ECD from the membrane-bound receptor. There is one alternate splice form that shows a deletion of aa 643-665. Over aa 25-880, human BAI3 shares 98% aa identity with mouse BAI3. BAI3 has been reported primarily in the brain, but is also localized to lung, testis, and pancreas. It might be involved in angiogenesis inhibition and suppression of glioblastoma.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 5% Thehalose, pH 7.2.

Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

Amino Acid : AQDFWCSTLVKGVYGSYSVSEMFKNFTNCTWTLENPDPTKYSIYLFKFSKDLSCSNFSLAYQFDHFSHEKIK
DLLRKNHSIMQLCNSKNAFVFLQYDKNFIQIRRVFPTNFPGLQKKGEEDQKSFFFLVLNKKVSPSQFGCHVLCT
WLESCLKSENGRTESCGIMYTKCTCPQHLGEWGIDDQSLILLNNVVLPLNEQTEGCLTQELQTTQVCNLTREAK
RPPKEEFGMMGDHTIKSQRPVSVEKRVPEQADAAKFMAQTGESGVVEWSQWSTCSVTCGQGSQVTRTR
CVSPYGTHCSGPLRESRVCNNTALCPVHGVVEWSPWSLCSFTCGRGQRTRTRSCPTPPQYGGRCPEGPEH
HKPCNIALCPVDGQWQEWSSWSQCSVTCSNGTQQRSRQCTAAAHGGSECRGPWAESRECYNPECTANGQ
WNQWGHWSGCSKSCDGGWERRIRTCQGAIVTGOQCEGTGEEVRRCEQRCAPYEICPEDYLMMSVWKRT
PAGDLAFNQCPNATGTTSSRCSLSLHGVAFWEQPSFARCISNEYRHLQHSIKEHLAKGQRMLAGDGMSQVT
KTLDLTQRKNFYAGDLLMSVEILRNVTDTFKRASYIPASDGVQNFQIVSNLLDEENKEKWEDAQQIYPGSIEL
MQVIEDFIHIVGMGMMDFQNSYLMTGNNVASIQKLPAAASVLTDFNPMKGRKGMVDWARNSEDRVVPKSIPTP
VSSKELDESSVFLGAVLYKNLDLILPTLRNYTVINSKIIIVTIRPEPKTTDSFLEIELAHLANGTLNPYCVLWDDSK
TNESLGTWSTQGCKTVLTDASHTKCLCDRLSTFAILAQPREIIMESSGTPSVTVDDHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.