

Recombinant Human BAI3, His-tagged

Cat. No. BAI3-7827H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BrainSpecific Angiogenesis Inhibitor 3/BAI3 produced by transfected human cell is a secreted protein with sequence (Ala25Thr880) of Human BAI3 fused with a polyhistidine tag at the Cterminus.
Species	Human
Source	HEK293
Description	Human BrainSpecific 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) (aa25883), a 7TM segment, and a Cterminal cytoplasmic region. The ECD contains four antiangiogenic TSP type 1 repeat (aa296508), and one GSP domain (aa 816867) that is likely used to cleave the ECD from the membranebound receptor. There is one alternate splice form that shows a deletion of aa 643665. Over aa 25880, 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.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, 5% Thehalose, pH 7.2

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	AQDFWCSTLV KGVYGSYSV SEMFPKNFTN CTWTLENPDP TKYSIYLKFS KKDLSCSNFS LLAYQFDHF SHEKIDLLR KNHSIMQLCN SKNAFVFLQY DKNFIQIRRV FPTNFPGLQK K GEEDQKSF FEFLVLNKVS PSQFGCHVLC TWLESCLKSE NGRTESCGIM YTKCTCPQHL GE WGIDDQS LILLNNVLP LNEQTEGCLT QELQTTQVCN LTREAKRPPK EEFGMMGDHT IKS QRPRSV HEKRVPEQA
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Notes	For research use only.
Storage	Lyophilized protein should be stored at less than 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 less than 20°C. for 3 months.

GENE INFORMATION

Gene Name	BAI3 brain-specific angiogenesis inhibitor 3 [Homo sapiens]
Official Symbol	BAI3
Synonyms	BAI3; brain-specific angiogenesis inhibitor 3; dJ91B17.1 (brain-specific angiogenesis inhibitor 3); HGNC:945;
Gene ID	577
mRNA Refseq	NM_001704.2
Protein Refseq	NP_001695.1
MIM	602684

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UniProt ID	O60242
Chromosome Location	6q12
Function	G-protein coupled receptor activity