

## Recombinant Human BAI3, His-tagged

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

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | 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.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | HEK293  |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, 5% Thehalose, pH 7.2  |

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**AA Sequence**

AQDFWCSTLV KGVYIGSYSV 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  
 HEKRVPQEQA

**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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|----------------------------|-------------------------------------|
| <b>UniProt ID</b>          | O60242                              |
| <b>Chromosome Location</b> | 6q12                                |
| <b>Function</b>            | G-protein coupled receptor activity |

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