

# Recombinant Human BAI3 Protein (His Tag)

Catalog Number:PKSH032129



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

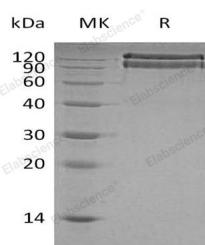
## Description

<b>Synonyms</b>	Brain-Specific Angiogenesis Inhibitor 3;BAI3;KIAA0550
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ala25-Thr880
<b>Accession</b>	O60242
<b>Calculated Molecular Weight</b>	97.5 kDa
<b>Observed molecular weight</b>	115-145 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 150mM NaCl, 5% Trehalose, pH 7.2. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in t
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

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

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to lung, testis, and pancreas. It might be involved in angiogenesis inhibition and suppression of glioblastoma.

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