

## BCAS2 Protein, Human (N-GST)

Cat. No.:	HY-P700271
Synonyms:	rHuBCAS2, His, N-T7; Pre-mRNA-Splicing Factor SPF27; Breast Carcinoma-Amplified Sequence 2; Spliceosome-Associated Protein SPF 27; BCAS2
Species:	Human
Source:	E. coli
Accession:	O75934 (A2-F225)
Gene ID:	10286
Molecular Weight:	Approximately 53 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu\text{m}$ filtered solution of Tris-based buffer, 50% glycerol
Endotoxin Level	<1 EU/ $\mu\text{g}$ , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	BCAS2 is essential for pre-mRNA splicing, functioning as a crucial component of the activated spliceosome and the PRP19-CDC5L complex, which is integral to spliceosome activation. It plays a potential scaffolding role in spliceosome assembly by establishing contacts with all other core complex components. The PRP19-CDC5L complex, of which BCAS2 is a part, may also be implicated in the DNA damage response (DDR). BCAS2 is found in both pre-catalytic and catalytic spliceosome complexes, as well as the postcatalytic spliceosome P complex. The PRP19-CDC5L splicing complex, featuring a homotetramer of PRPF19, CDC5L, PLRG1, and BCAS2 as its core, also includes less stably associated proteins like CTNNB1, CWC15, and HSPA8. BCAS2 directly interacts with PRPF19, CDC5L, and PLRG1 within this complex.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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