

## B7-H4 Protein, Rhesus macaque (HEK293, His)

Cat. No.:	HY-P7642
Synonyms:	rRhB7-H4, His; B7-H4; Protein B7S1; T cell costimulatory molecule B7x; V-set domain-containing T-cell activation inhibitor 1
Species:	Rhesus Macaque
Source:	HEK293
Accession:	F7B770 (F29-A258)
Gene ID:	714123
Molecular Weight:	40-60 kDa

### PROPERTIES

AA Sequence	<pre> FGISGRHSIT   VTTVASAGNI   GEDGILSCTF   EPDIKLSDIV IQWLKEGVIG   LVHEFKEGKD   ELSEQDEMFR   GRTAVFADQV IVGNASLR LK   NVQLTDAGTY   KCYIITSKGK   GNANLEYKTG AFSMPEVNVD   YNASSETLRC   EAPRWFPQPT   VVWASQVDQG ANFSEVSNTS   FELNSENVTM   KVVSVLYNVT   INN T Y S C M I E NDIAKATGDI   KVT E S E I K R R   S H L Q L L N S K A   H H H H H H           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>Human B7-H4 mRNA is expressed in spleen, lung, and thymus. B7-H4 expression can be induced on T cells, B cells, monocytes, and DC after in vitro stimulation.<sup>[1]</sup></p> <p>Mouse B7-H4 transcript is detected in the heart, lung, liver, skeletal muscle, kidneys, and testis but not in brain and spleen<sup>[1]</sup>.</p> <p>B7-H4 is a cancer promoter and a potentially important therapeutic target<sup>[3]</sup>.</p>
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## REFERENCES

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- [1]. Gabriel L Sica, et al. B7-H4, a molecule of the B7 family, negatively regulates T cell immunity. *Immunity*. 2003 Jun;18(6):849-61.
- [2]. Joseph R Podojil, et al. Potential targeting of B7-H4 for the treatment of cancer. *Immunol Rev*. 2017 Mar;276(1):40-51.
- [3]. Yun Qian, et al. B7-H4 enhances oncogenicity and inhibits apoptosis in pancreatic cancer cells. *Cell Tissue Res*. 2013 Jul;353(1):139-51.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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