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**Tyrosine-protein phosphatase non-receptor type substrate 1, 32-373aa, Rat, His tag, Insect cell**

**Cat.NO.: TP04365**

3th Edition

**Synonyms:**Bit, Ptpns1, SHPS-1, Sirpa.

**Description:**SIRPA, also known as tyrosine-protein phosphatase non-receptor type substrate 1, is an immunoglobulin-like cell surface receptor for CD47. It supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. It may play a key role in intracellular signaling during synaptogenesis and in synaptic function. It is involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin. Recombinant rat SIRPA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:**Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:**38.5kDa (350aa) 57-70kDa (SDS-PAGE under reducing conditions)

**Sequences:**

KELKVTQADKSVSVAAGDSATLNCTVSSLTPVGPIKWFKGEGQNRSPIYSFIGGEHFPRITNVSDATKRNNMDFSICI  
SNVTPEDAGTYCYVKFQKGIVDPDTEIKSGGGTTLVVLAKPSSPEVSGPDSRGSPGQTVNFTCKSYGFSPRNITLK  
WLKNGKELSHLETTISSKSNVSYNISSTVSVKLSPEDIHSRVICEVAHVTLGRPLNGTANFSNIIRVSPTLKITQQPLT  
PASQVNLTCQVQKFYPKALQLNWLGNLSRTDKPEHFTDNRDGTNYTSLFLVNSSAHREDVVFTCQVEHDSQP  
AITENHTVRAFAHSSSGGSMETIPDNNAYYNWNVEHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.