



## Product Datasheet

<b>Product Name</b>	Fast skeletal Troponin I Human Recombinant
<b>Cata No</b>	CB500962
<b>Source</b>	<i>Escherichia Coli</i> .
<b>Synonyms</b>	Troponin I fast skeletal muscle, Troponin I fast-twitch isoform, TNNI2, DA2B, FSSV, fsTnl, AMCD2B

### Description

TNNI2 is a fast-twitch skeletal muscle protein, belongs to the troponin I gene family, and is part of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, together with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. TNNI2 is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. Other than muscle tissues, TNNI2 is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a coactivator of estrogen receptor-related receptor alpha. Furthermore, TNNI2 suppresses tumor growth in human ovarian carcinoma. Mutations in the TNNI2 gene cause myopathy and distal arthrogyrosis type 2B. Skeletal isoforms of Troponin I were suggested to be used as markers of acute and chronic skeletal muscle injuries. In skeletal muscles Troponin I is

presented by two forms, slow (21,6 kDa) and fast (21,2 kDa) skeletal.

### Physical Appearance

Sterile Filtered colourless liquid formulation.

### Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Formulation

Each mg of protein contains 50% glycerol.

### Stability

FsTnl although stable at 10°C for 7 days, should be stored desiccated below -18°C.

**Please prevent freeze-thaw cycles.**

### Applications

Immunoassays and western blot.