Recombinant Human HK2 Protein (Trx Tag)

RPES8133

Product Information

Product SKU:	RPES8133	**Expression Host**:	E.coli	**Size**:	20µg
Tag:	N-Trx	**Reactivity**:	Human	**Accession**:	P52789

Additional Information

Calculated MW:	58.3 kDa	**Observed MW:**	38 kDa
Sequence:	His568-Arg917		

Protein Information

Background: Hexokinase 2 (HK2), a rate-limiting enzyme in the first step of the glycolysis pathway, expresses at a high level in cancer cells compared with normal cells. HK2 provides a new target for cancer therapy due to its pivotal role in tumor tumourigenic and metastatic processes. The glycolytic enzyme hexokinase 2 (HK2) is crucial for the Warburg effect in human glioma, the most common malignant brain tumor. Althoµgh absent in most adult tissues, hexokinase 2 (HK2) is expressed in a majority of tumors and contributes to increased glucose consumption and to in vivo tumor 18F-FDG PET signaling. Hexokinase 2 (HK2) is a rate-determining enzyme in aerobic glycolysis, a process upregulated in tumor cells. HK2 expression is controlled by various transcription factors and epigenetic alterations and is heterogeneous in hepatocellular carcinomas (HCCs), thoµgh the cause of this heterogeneity is not known.

Synonyms: DKFZp686M, HXK, HK2, HKII, HXK2, hexokinase-2, DKFZp686M1669, Hexokinase 2, Hexokinase 2 muscle, Hexokinase type II, HK 2, HK II, HxK 2, Muscle form hexokinase

Endotoxin: < 10 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

Contact Details | Dublin, Ireland
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Storage: 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.

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