

Recombinant Human ATPase Transporting beta 1

Datasheet

Catalog Number: PR27232 Product Type: Recombinant Protein

Source: E. Coli

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSEFKPTYQ DRVAPPGLTQ IPQIQKTEIS FRPNDPKSYE

AYVLNIVRFL EKYKDSAQRD DMIFEDCGDV PSEPKERGDF NHERGERKVC RFKLEWLGNC SGLNDETYGY KEGKPCIIIK LNRVLGFKPK PPKNESLETY PVMKYNPNVL PVQCTGKRDE DKDKVGNVEY FGLGNSPGFP LQYYPYYGKL LQPKYLQPLL AVQFTNLTMD TEIRIECKAY

GENIGYSEKD RFQGRFDVKI EVKS.

Description/Molecular ATPaseTransporting Beta 1 (ATP1B1) is a part of the family of Na+/K+ and H+/K+ ATPases beta

chain proteins, and the subfamily of Na+/K+ -ATPases. Na+/K+ -ATPase is an essential membrane protein accountable for establishing and maintaining the electrochemical gradients of Na and K ions over the plasma membrane. These gradients are vital for osmoregulation, for sodium-coupled transport of a range of organic and inorganic molecules, and for electrical excitability of muscle and nerve. ATP1B1is combined of 2 subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates the number of sodium pumps transported to the plasma

membrane through assembly of alpha/beta heterodimers. ATP1B1 is a beta 1 subunit.

ATP1B1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain

containing 264 amino acids (63-303) and having a molecular mass of 30.4 kDa.

ATP1B1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic

techniques.

Purity: Greater than 90.0% as determined by:

(a) Analysis by SDS-PAGE.

Format: The ATP1B1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.

Storage: Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of

time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS, ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RSKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

03/08v1