



Catalog Number: PR27211

Product Type: Recombinant Protein

Source: *E. Coli*

Amino Acid Sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMST VHEILCKLSL EGDHSTPPSA YGSVKAYTNF DAERDALNIE TAIKTKGVDE VTIVNILTNR SNAQRQDI AF AYQRRTKKEL ASALKSALSG HLETVILGLL KTPAQYDASE LKASMKGLGT DEDSLIEIC SRTNQELQEI NRVYKEMYKT DLEKDIISDT SGDFRKL MVA LAKGRR AEDG SVIDYELIDQ DARDLYDAGV KRKGT DVPKW ISIMTERSVP HLQKVFD RYK SYSPYD MLES IRKEVKG DLE NAFLNLVQCI QNKPLYFADR LYDSMKGKGT RDKVLIRIMV SRSEVDMLKI RSEFKRKYGK SLYYYIQQDT KGDYQKALLY LCGGDD.

Description/Molecular Mass: ANXA2 is part of the annexin family and is involved in the regulation of cellular growth and in signal transduction pathways. ANXA2 protein functions as an autocrine factor which increases osteoclast formation and bone resorption. ANXA2 is associated with sickle cell osteonecrosis. Reduced ANXA2 expression is associated with osteosarcoma metastases. ANXA2 is part of the putative cell surface vitamin D binding protein binding site complex and functions to mediate the chemotactic cofactor effect. ANXA2 is involved in dysferlin deficiency and in muscular dystrophies. Human colon adenocarcinoma cell differentiation is related with an up-regulation of ANXA2.

Purity: ANXA2 Human Recombinant produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 376 amino acids (1-339a.a.) and having a molecular mass of 42.8 kDa. ANXA2 is fused to a 37 amino acid His-Tag at N-Terminus and purified by proprietary chromatographic techniques. Greater than 95.0% as determined by:
(a) Analysis by SDS-PAGE.

Format: ANXA2 (0.5mg/ml) solution containing 20mM Tris-HCl pH-8, 0.1M NaCl and 20% glycerol.

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

www.neuromics.com

Neuromics • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail pshuster@neuromics.com