

# Recombinant Human Anterior Gradient Homolog 3 (*Xenopus laevis*), His-tagged

**Cat. No.** AGR3-4959H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	<p>AGR3, also known as anterior gradient protein 3 homolog precursor, is a secreted cytoplasmic protein which is involved in metastasis induction and p53 tumour suppressor inhibition. It may serve as molecular marker and potential therapeutic target for hormone-responsive breast tumours.</p>
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	<p>Pleiotrophin and Midkine are structurally related heparin-binding neurotrophic factors, whose expression is developmentally regulated. The expression pattern of these neurotrophic factors suggests function in neurogenesis, cell migration, secondary organogenesis, and mesoderm epithelial interaction. The expression of PTN increases during the process of brain embryogenesis and reaches maximum levels at time of birth. The physiological roles of PTN and Midkine are largely unknown, but these neurotrophins have been implicated in the pathogenesis of neuroblastomas.</p>
<b>Concentration</b>	1 mg/ml
<b>Form</b>	Supplied as a liquid in 20 mM Tris-HCl buffer, pH 8.0, containing 20% glycerol, 0.1 M NaCl and 1 mM DTT.
<b>Purity</b>	> 90% pure by SDS-PAGE

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<b>Sequence</b>	22-166 amino acids:MGSSHHHHHSSGLVPRGSHMGSMIAIKKEKRPPQTLSRGW GDDITWVQTYEEGLFYAQKSKKPLMVIHHLEDCQYSQALKKVFQAQNEEQEMAQNK FIMLNLMHETTDKNLSPDGQYVPRIMFVDPSLTVRADIAGRYSNRLYTYEPRDLPLLI ENMKKALRLIQSEL
<b>Molecular Mass</b>	19.5 kDa (169 aa),confirmed by MALDI-TOF.
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Store at 4 deg C forshort term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg Cfor long term storage. Avoid repeated freeze/thaw cycles.
<b>OfficialSymbol</b>	AGR3

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">AGR3 anterior gradient homolog3 (Xenopus laevis) [ Homo sapiens ]</a>
<b>Synonyms</b>	AGR3; anteriorgradient homolog 3 (Xenopus laevis); HAG3; hAG-3; BCMP11; PDIA18; anteriorgradient protein 3 homolog; anterior gradient protein 3 homolog; AG-3;OTTHUMP00000158512; OTTHUMP00000201702; OTTHUMP00000201703; breast cancermembrane protein 11; protein disulfide isomerase family A, member 18; breastcancer membrane protein 11; AG3; Anterior gradient protein 3 homolog
<b>Gene ID</b>	<a href="#">155465</a>
<b>mRNA Refseq</b>	<a href="#">NM_176813</a>
<b>Protein Refseq</b>	<a href="#">NP_789783</a>
<b>MIM</b>	<a href="#">609482</a>

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<b>UniProt ID</b>	Q8TD06
<b>Chromosome Location</b>	7p21.1
<b>Function</b>	alpha-dystroglycanbinding

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