



**FIANOSTICS**  
Light Up Your Results

Super Sensitive and Easy

# FluoBolt<sup>TM</sup>-Noggin

High Sensitivity, Single Step Immunoassay  
for free, bioactive Noggin in Serum and Plasma

Signal Enhanced Fluorescence Immunoassay  
based on Plasmonic Substrates

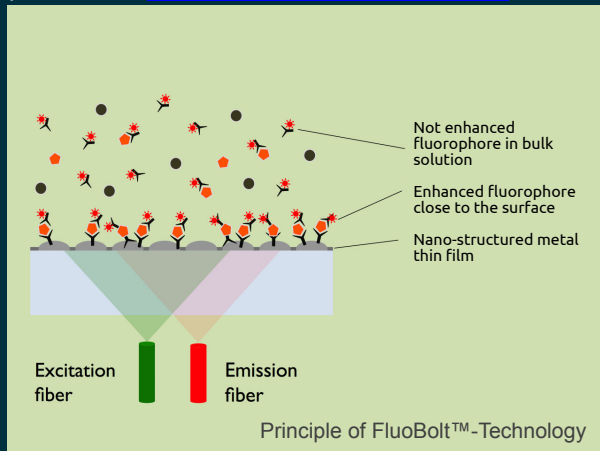


- High Sensitivity
- Single Step Assay
- No Wash
- No Enzyme Substrate
- Stable Signal over Time

[www.fianostics.at](http://www.fianostics.at)

## About FluoBolt™-Technology:

For more information about FluoBolt™-Technology, please visit: [www.fianostics.at/en/technology](http://www.fianostics.at/en/technology)



FluoBolt™-Technology is based on a physical effect called “Metal Enhanced Fluorescence” which is generated by nanometal structures on the bottom of our micro plates. Those structures create a very strong local electromagnetic field (“localized surface plasmon”), that greatly enhances the fluorescence of surface bound fluorophores.

The unique features of FluoBolt™-Technology enable us to develop direct fluorescence immunoassays with the following benefits:

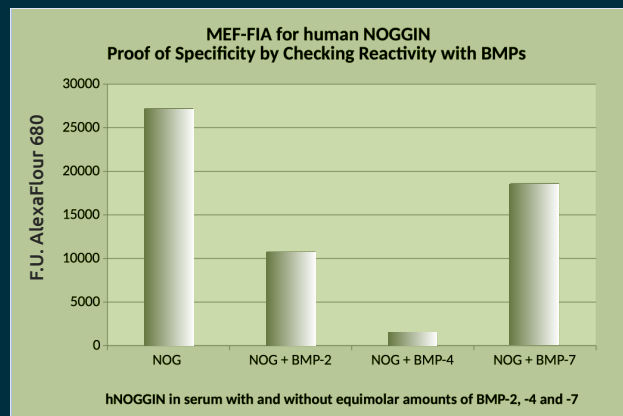
- High Sensitivity
- Single Step Procedure
- No Washing Steps
- No Enzym Substrates required
- Long Term Stable Signals

## About FluoBolt™-NOGGIN:

Noggin is a secreted homo-dimeric glycoprotein which predominantly binds to BMP-4 and BMP-2 and antagonizes their bioactivities by preventing binding to both type I and type II BMP receptors. Noggin is involved in the patho-physiology of:

- Ankylosing Spondylitis ( Morbus Bechterew )
- Osteolytic Bone Metastases
- Pulmonary Arterial Hypertension

FluoBolt™-NOGGIN assay detects free circulating, not BMP-complexed human NOGGIN, which was shown inhibiting the signal of NOGGIN in human serum with recombinant BMPs (see chart on the right). For more information about the FluoBolt™-NOGGIN assay, please visit [www.fianostics.at/en/products/noggin](http://www.fianostics.at/en/products/noggin)



## Assay Characteristics

Method	Metal Enhanced Direct Sandwich Fluorescence Immunoassay in 96-well plate format
Sample type	Serum, Plasma
Standard range	0 to 250 pmol/l (6 standards and 2 controls in a human serum based matrix)
Conversion factor	1 pg/ml = 0.015 pmol/l (MW: 66 kD)
Sample volume	20 µl (undiluted sample) / well
Incubation steps / time / temperature	Single step assay, 4 h , 37°C or over night RT
Sensitivity	LOD (0 pmol/l + 3 SD): 1 pmol/l; LLOQ: 5 pmol/l
Specificity	This assay detects circulating human NOGGIN, that is not complexed with BMP-2, -4 or -7
Cross-reactivity	NOGGIN is highly conserved across species. Human NOGGIN shares 99%, 99%, 98%, 97% and 89% aa sequence identity with mouse, rat, bovine, equine and chicken NOGGIN. Cross reactivity of this assay with other species than human has not been tested.