FGF2 alternative peptide (FGFR1c agonist)

Code	PG-011
MW (Acetate):	5127.81
Purity:	≥95% (HPLC)
Amount:	10 µg

Formulation: This vial contains 10 µg of the titled compound,
which has been lyophilized from 0.2 µm filtered DMSO solution.

Reconstitution: Reconstitute at 100~200 µg/mL in DMSO
Centrifuge the vial before opening.
Rinse the inside of the vial thoroughly with DMSO.
When further diluting the DMSO solution, we recommend using a buffered
solution (e.g., PBS) with a carrier component to prevent peptide adhesion.
<Example>
A 100 µg/mL solution can be prepared by reconsituting 10 µg of peptide in
100 µL DMSO.

Storage: Store at -20°C or below for the container vial unopened.
Recommend to use the peptide as quickly as possible after opening and
reconstitution.

Activity: Measured by its ability to induce phosphorylation of human FGFR1c in BaF3
cells overexpressing hFGFR1c in the presence of 1 U/mL of heparin, as well as
through a proliferation assay using human mesenchymal stem cells (MSCs)
derived from bone marrow, conducted without heparin.
The expected ED50 for these effects is 0.1–1.5 ng/mL.

Evaluation Guideline: PG-011 is expected to exhibit comparable activity at 1/3(ng/mL basis) of rFGF2
concentration.For MSC or fibroblast proliferation, test at several points around
1/3 of rFGF2. For iPSC maintenance, start at 1/3 and test around higher
concentrations. For differentiation induction, start at 1/3 and test around lower
concentrations. Optimize by testing multiple concentrations for each system.

Phosphorylation of FGFR1c
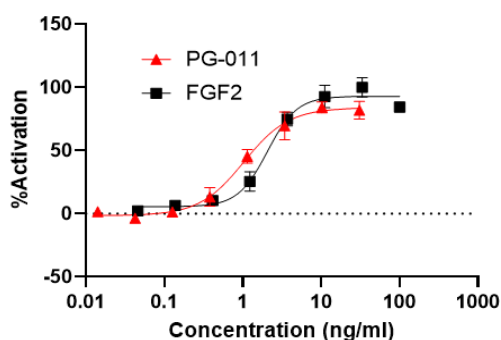
Proliferation of human MSCs
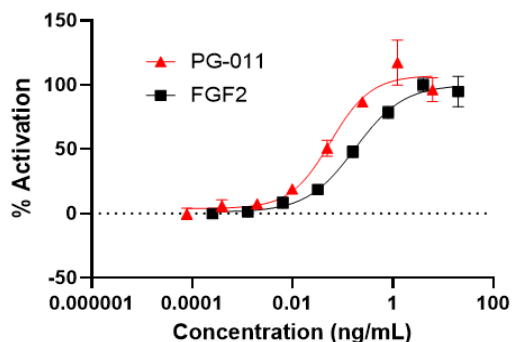
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