

Smads (or SMADs) comprise a family of structurally similar proteins that are the main signal transducers for receptors of the [transforming growth factor beta](#) (TGF- β) superfamily, which are critically important for regulating cell development and growth. The abbreviation refers to the homologies to the *Caenorhabditis elegans* SMA ("small" worm phenotype) and *Drosophila* MAD ("Mothers Against Decapentaplegic") family of genes.

There are three distinct sub-types of Smads: receptor-regulated Smads (R-Smads), common partner Smads (Co-Smads), and inhibitory Smads (I-Smads). The eight members of the Smad family are divided among these three groups. Trimers of two receptor-regulated SMADs and one co-SMAD act as transcription factors that regulate the expression of certain genes.

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