

This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Cancer	Phospholipase D (PLD); PLD ₁ ; PLD ₂	<p>An SAR study identified a series of isoform-selective PLD inhibitors that could be useful for preventing cancer metastasis. Overexpression of PLD, an enzyme responsible for the production of phosphatidic acid, can be oncogenic and has been implicated in multiple human cancers. A dual inhibitor of PLD isoforms PLD₁ and PLD₂ decreased the invasiveness of all three metastatic breast cancer cell lines, whereas PLD₁-specific inhibitors decreased the invasiveness of a single cell line. Next steps could include additional studies to better define the role of PLD₁ and PLD₂ in essential biological functions.</p> <p>SciBX 2(4); doi:10.1038/scibx.2009.131 Published online Jan. 29, 2009</p>	Patent and licensing status unavailable	<p>Scott, S. <i>et al. Nat. Chem. Biol.</i>; published online Jan. 11, 2009; doi:10.1038/nchembio.140</p> <p>Contact: H. Alex Brown, Vanderbilt University School of Medicine, Nashville, Tenn. e-mail: alex.brown@vanderbilt.edu</p>