**Lemma.** Consider  $\mathbf{f}, \mathbf{g}, \mathbf{h} \in \operatorname{Hom}_{\mathbf{DP}}(\mathbf{A}; \mathbf{B})$ . One has  $(\mathbf{f} \vee \mathbf{g}) \vee \mathbf{h} = (\mathbf{f} \vee \mathbf{h}) \vee (\mathbf{g} \vee \mathbf{h}).$